

Listing of Claims:

Claims 1-2 (cancelled)

Claim 3 (currently amended) The method of claim 10 wherein W is selected from the group consisting of hydrogen or R-X-C(Y)-; R is selected from the group consisting of phenyl, naphthyl, indolyl and pyridyl, all unsubstituted or substituted by at least one member selected from the group consisting of methyl, ethyl, propyl, isopropyl, butyl, tert-butyl, methoxy, ethoxy, methylthio, ethylthio, methoxycarbonyl, ethoxycarbonyl, methylsulfonyl, ethylsulfonyl, chloro, fluoro, bromo, trifluoromethyl, trifluoromethoxy, hydroxy, nitro, cyano, phenyl, phenoxy and morpholino;

X is selected from the group consisting of $-\text{CH}_2-$, $-\text{C}_2\text{H}_4-$, $-\text{CH}_2\text{NH}-$, $-\text{NH}-$, $-\text{O}-$, $-\text{S}-$ or a covalent bond;

Y is selected from the group consisting of O or S;

R₁ is selected from the group consisting of one of a hydrogen atom, a chloro, methyl or methoxy radical;

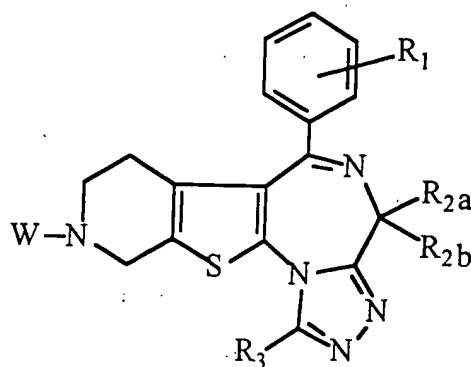
R_{2a} and R_{2b} are selected from the group consisting of a hydrogen atom or a methyl;

R₃ is selected from the group consisting of a hydrogen atom, methyl, ethyl, propyl, butyl, pentyl, hexyl, heptyl, methoxyethyl, ethoxyethyl, dimethylaminoethyl, cyclohexylmethyl, phenyl, diphenyl, benzyl unsubstituted or substituted by the hydroxy or methoxy, phenethyl, naphthylmethyl or indolylmethyl.

Claim 4-8 (cancelled)

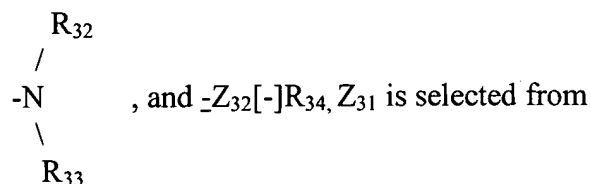
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Claim 9 (currently amended) A composition for treating acromegalia, hypophyseal adenomas and endocrinic gastroenteropancreatic tumors comprising an amount of a compound of the formula



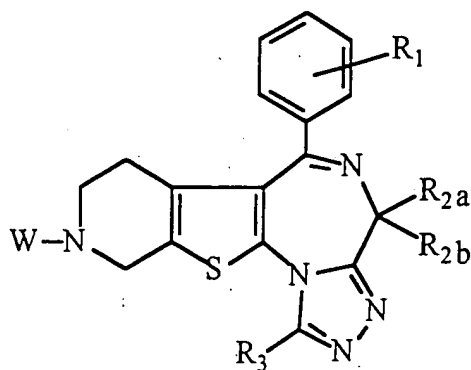
wherein W is hydrogen or R-X-C(Y)-, R is unsubstituted or substituted aryl or heteroaryl with at least one substituent selected from the group consisting of lower alkyl, lower alkoxy, lower alkylthio, lower alkoxycarbonyl, lower alkylsulfonyl, halogen, -CF₃, -OCF₃, -OH, -NO₂, -CN, aryl, aryloxy, cycloalkyl and heterocycloalkyl, X is -(CH₂)_n-Z, Z is selected from the group consisting of a covalent bond, -NH-, -O- and -S-, n is 0, 1 or 2, Y is oxygen or sulfur, R₁ is selected from the group consisting of hydrogen, -OH, halogen, lower alkyl and lower alkoxy, the alkyl and alkoxy being unsubstituted or substituted with at least one member of the group consisting of -CF₃, lower alkoxy, -NH₂ and mono and di-lower alkylamino, R_{2a} and R_{2b} are individually hydrogen or methyl, R₃ is selected from the group consisting of hydrogen, halogen, -NO₂, -CN, unsubstituted or substituted alkyl of 1 to 10 carbon atoms, unsubstituted or substituted lower alkenyl, unsubstituted or substituted alkynyl, unsubstituted or substituted cycloalkyl, unsubstituted

or substituted cycloalkylalkyl, unsubstituted or substituted aryl, unsubstituted or substituted aralkyl, unsubstituted or substituted lower aryloxyalkyl, unsubstituted or substituted heteroaryl, unsubstituted or substituted heteroarylalkyl and $-Z_{31}R_{31}$, the substituents being selected from the group consisting of halogen, aryl,



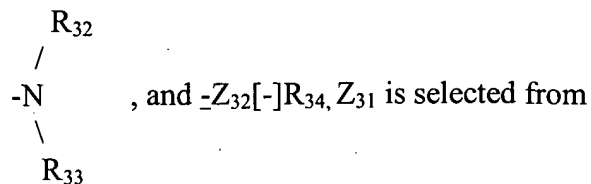
the group consisting of $-O-$, $-C(O)-$, $-OC(O)-$ and $-S-$, R_{31} is selected from the group consisting of hydrogen, lower alkyl, aryl and lower aralkyl, R_{32} and R_{33} are individually selected from the group consisting of hydrogen, lower alkyl, aralkyl and alkylcarbonyl or together with the nitrogen form a heterocycloalkyl, Z_{32} is selected from the group consisting of oxygen, sulfur, $-C(O)-$, $-S(O)-$, $-O-CO-$ and $-SO_2$, R_{34} is selected from the group consisting of hydrogen, lower alkyl, aryl and lower aralkyl and its non-toxic pharmaceutically acceptable salts sufficient to treat acromegalia, hypophyseal adenomas and endocrinic gastroenteropancreatic tumors and an inert pharmaceutical carrier.

Claim 10 (currently amended) A method for treating a condition selected from the group consisting of acromegalia, hypophyseal hypophyseal adenomas and endocrinic gastroenteropancreatic tumors in warm-blooded animals comprising administering to warm-blooded animals in need thereof an effective amount of a compound selected from the group consisting of a compound of the formula



I

wherein W is hydrogen or R-X-C(Y)-, R is unsubstituted or substituted aryl or heteroaryl with at least one substituent selected from the group consisting of lower alkyl, lower alkoxy, lower alkylthio, lower alkoxycarbonyl, lower alkylsulfonyl, halogen, -CF₃, -OCF₃, -OH, -NO₂, -CN, aryl, aryloxy, cycloalkyl and heterocycloalkyl, X is -(CH₂)_n-Z, Z is selected from the group consisting of a covalent bond, -NH-, -O- and -S-, n is 0, 1 or 2, Y is oxygen or sulfur, R₁ is selected from the group consisting of hydrogen, -OH, halogen, lower alkyl and lower alkoxy, the alkyl and alkoxy being unsubstituted or substituted with at least one member of the group consisting of -CF₃, lower alkoxy, -NH₂ and mono- and di-lower alkylamino, R_{2a} and R_{2b} are individually hydrogen or methyl, R₃ is selected from the group consisting of hydrogen, halogen, -NO₂, -CN, unsubstituted or substituted alkyl of 1 to 10 carbon atoms, unsubstituted or substituted lower alkenyl, unsubstituted or substituted alkynyl, unsubstituted or substituted cycloalkyl, unsubstituted or substituted cycloalkylalkyl, unsubstituted or substituted aryl, unsubstituted or substituted aralkyl, unsubstituted or substituted lower aryloxyalkyl, unsubstituted or substituted heteroaryl, unsubstituted or substituted heteroarylalkyl and -Z₃₁R₃₁, the substituents being selected from the group consisting of halogen, aryl,



the group consisting of -O-, -C(O)-, -OC(O)- and -S-, R₃₁ is selected from the group consisting of hydrogen, lower alkyl, aryl and lower aralkyl, R₃₂ and R₃₃ are individually selected from the group consisting of hydrogen, lower alkyl, aralkyl and alkylcarbonyl or together with the nitrogen form a heterocycloalkyl, Z₃₂ is selected from the group consisting of oxygen, sulfur, -C(O)-, -S(O)-, -O-CO- and -SO₂, R₃₄ is selected from the group consisting of hydrogen, lower alkyl, aryl and lower aralkyl and its non-toxic pharmaceutically acceptable salts sufficient to treat said ~~conditions~~ condition.

Claim 11 (cancelled)

Claim 12 (currently amended) The method of claim 10 wherein

W is hydrogen or R-X-C(Y)-;

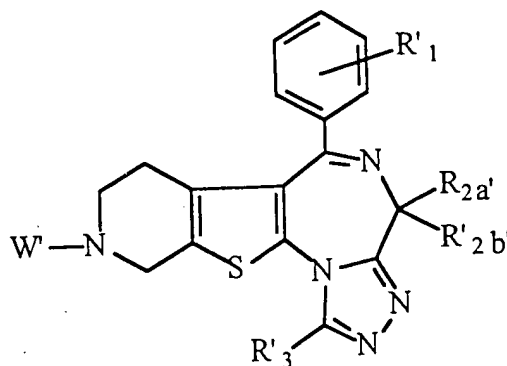
R is aryl or heteroaryl, both unsubstituted or substituted by at least one member selected from the group consisting of lower alkyl, lower alkoxy, lower alkylthio, lower alkoxy carbonyl, lower alkylsulfonyl, halo, trifluoromethyl, trifluoromethoxy, hydroxy, nitro, cyano, aryl, aryloxy or heterocycloalkyl;

R₁ is at least one member of the group consisting of hydrogen, halo, lower alkyl and lower alkoxy;

R_{2a} and R_{2b} are independently, hydrogen or methyl;

R_3 is selected from the group consisting of hydrogen, alkyl of 1 to 10 carbon atoms, cycloalkylalkyl, aryl, lower arylalkyl or heteroarylalkyl the alkyl, cycloalkyl, aryl and heteroaryl are unsubstituted or substituted by at least one member of the group consisting of aryl; $-NR_{32}R_{33}$ in which either R_{32} and R_{33} are independently, hydrogen or lower alkyl and $-Z_{32}[-]R_{34}$ in which Z_{32} is O and R_{34} is hydrogen or lower alkyl.

Claim 13 (currently amended) A compound of ~~claim 11~~ the formula



II

wherein W' is $R'-X'-C(Y')-$ and the substituents R' , X' , Y' , R'_1 , ~~R_{2a} and R_{2b}~~ R_{2a}' , R_{2b}' and R'_3 are respectively selected from the group consisting of:

- 2-F₃C-Ph ; CH₂ ; O ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; CH₂ ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; O ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; CH₂NH ; S ; 2-Cl ; H ; H ; Me ;
- Ph ; O ; O ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; Me ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Bz ;
- 3-F₃C-Ph ; NH ; O ; 2-Cl ; H ; H ; Me ;
- 4-F₃C-Ph ; NH ; O ; 2-Cl ; H ; H ; Me ;
- 2-isoPr-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NC-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Et ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; H ;
- 2-terBu-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 1-naphthyl ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Ph-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃CO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Et-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-PhO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Pr-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-EtO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-EtOC(O)-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-MeS-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-morpholino-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,6-isoPr-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,6-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,5-(MeO)-Ph ; NH ; O ; 2-Cl ; H ; H ; Me ;
- 2-MeO-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,4-(MeO)-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Cl-5-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Me-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,3-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,5-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Cl-4-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Me-3-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Me-5-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,3-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-4-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-MeO-4-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2,5-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-MeO-5-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Cl-4-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Cl-5-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Pr ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Bu ;
- 3-Ph-6-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; H ; H ; H ; Me ;
- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Pr ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Bu ;
- 2-NO₂-4-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-MeSO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-4-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-NO₂-4-MeO-Ph ; NH ; S ; 4-Cl ; H ; H ; Bz ;
- 2-F₃C-Ph ; NH ; S ; 4-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; pentyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; hexyl ;
- 3,5-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 3-Cl ; H ; H ; Bz ;
- 2-NO₂-4-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-NC-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 1-naphthyl-methyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 3-indolyl-methyl ;
- 2-MeS-5-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 3-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-HO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-5-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-EtO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 4-MeO-Bz ;
- 2-NO₂-4-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Br-4-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 4-HO-Bz ;
- 2-F₃C-4-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; H ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph-C₂H₄ ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; EtOC₂H₄ ;
- 3-NO₂-2-pyridyl ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 4-MeO-Ph ; CH₂ ; O ; 2-Cl ; H ; H ; Me ;
- 2-indolyl ; - ; O ; 2-Cl ; H ; H ; Me ;
- 3-indolyl ; CH₂ ; O ; 2-Cl ; H ; H ; Me ;
- 4-HO-Ph ; C₂H₄ ; O ; 2-Cl ; H ; H ; Me ;
- [- 2-F₃C-Ph ; - ; O ; 2-Cl ; H ; H ; Me ;]
- 4-HO-Ph ; CH₂ ; O ; 2-Cl ; H ; H ; Me ;
- [- 5-MeO-2-indolyl ; - ; O ; 2-Cl ; H ; H ; Me ;
- Ph ; - ; O ; 2-Cl ; H ; H ; Me ;]

- Ph ; - ; S ; 2-Cl ; H ; H ; Me ;
- 5-MeO-2-indolyl ; - ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-Ph ; CH₂ ; O ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; CH₂ ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 4-Cl ; H ; H ; Me ;
- 2-NO₂-Ph ; CH₂ ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-MeO ; H ; H ; Bu ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-MeO ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Me ; H ; H ; Bu ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Me ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph-Ph ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; cyclohexyl methyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; (Me)₂NC₂H₄ ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 3-HO-Bz ;
- 2-pyridyl ; NH ; S ; 2-Cl ; H ; H ; Me ;
- Ph ; S ; S ; 2-Cl ; H ; H ; Me ;
- Ph ; O ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; heptyl ;

and the compounds of formula II wherein W W' is hydrogen and substituents R'₁, R'_{2a},

R'_{2b} and R'₃ are respectively selected from the group consisting of:

- 2-Cl ; H ; H ; butyl ;
- 2-Cl ; H ; H ; benzyl ;
- 2-Cl ; H ; H ; H ;
- 2-Cl ; H ; H ; ethyl ;
- 2-Cl ; H ; H ; propyl ;
- 2-Cl ; H ; H ; Ph ;
- 2-Cl ; H ; H ; pentyl ;
- 2-Cl ; H ; H ; hexyl ;
- 2-Cl ; H ; H ; 4-HO-Bz ;

- 2-Cl ; H ; H ; 4-MeO-Bz ;
- 2-Cl ; H ; H ; 1-naphthyl-methyl ;
- 2-Cl ; H ; H ; 3-indolyl-methyl ;
- 2-Cl ; H ; H ; Ph-C₂H₄ ;
- 2-Cl ; H ; H ; Ph-Ph ;
- 2-Cl ; H ; H ; EtOC₂H₄ ;
- 2-Cl ; H ; H ; cyclohexylmethyl ;
- 2-Cl ; H ; H ; 3-OH-Bz ;
- 2-Cl ; H ; H ; (Me)₂NC₂H₄ ;
- H ; H ; H ; Me ;
- 4-Cl ; H ; H ; Bz ;
- H ; H ; H ; Bz ;
- 4-Cl ; H ; H ; Me ;
- 3-Cl ; H ; H ; benzyl ;
- 3-Cl ; H ; H ; Me ;
- 2-Me ; H ; H ; butyl ;
- 2-Me ; H ; H ; benzyl ;
- 2-MeO ; H ; H ; butyl ;
- 2-Cl ; H ; H ; heptyl ;
- 4-Cl ; H ; H ; hexyl ; and
- 4-Cl ; H ; H ; pentyl.

Claim 14 (new) The method of claim 10 wherein the compound is selected from the group consisting of

- 1-butyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-benzyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-methyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-ethyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-propyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-phenyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-pentyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-hexyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(4-hydroxybenzyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(4-methoxybenzyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(1-naphthyl-methyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(3-indolyl-methyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 1-phenethyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-diphenyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-ethoxyethyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-cyclohexylmethyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(3-hydroxybenzyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-(dimethylaminoethyl)-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-methyl-6-phenyl-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-benzyl-6-(4-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-benzyl-6-phenyl-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-methyl-6-(4-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-benzyl-6-(3-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-methyl-6-(3-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-butyl-6-(2-methylphenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-benzyl-6-(2-methylphenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;
- 1-butyl-6-(2-methoxyphenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4]

triazolo [4,3-a] [1,4] diazepine ;

- 1-heptyl-6-(2-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 1-hexyl-6-(4-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 1-pentyl-6-(4-chlorophenyl)-7,8,9,10-tetrahydro-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 6-(2-chlorophenyl)-7,8,9,10-tetrahydro-1-methyl-9-[2-(2-trifluoromethylphenyl)-1-oxoethyl]-4H-pyrido[4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 6-(2-chlorophenyl)-7,8,9,10-tetrahydro-1-methyl-9-[2-(2-trifluoromethylphenyl)-1-thioxoethyl]-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine ;

- 6-(2-chlorophenyl)-7,10-dihydro-1-methyl-N-(2-trifluoromethylphenyl)-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine-9(8H)-carbothioamide ;

- 6-(2-chlorophenyl)-7,10-dihydro-1-methyl-N-(2-trifluoromethylphenyl)-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine-9(8H)-carboxamide ;

- 6-(2-chlorophenyl)-7,10-dihydro-1-methyl-N-(2-trifluoromethylbenzyl)-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine-9(8H)-carbothioamide ;

- 6-(2-chlorophenyl)-7,10-dihydro-1-methyl-N-benzyl-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine -9(8H)-carboxamide ;

- phenyl ester of 6-(2-chlorophenyl)-7,10-dihydro-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine -9(8H)-carboxylic acid ;

- 6-(2-chlorophenyl)-7,10-dihydro-1,4-dimethyl-N-(2-trifluoromethylphenyl)-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine -9(8H)-carbothioamide ;

- 1-benzyl-6-(2-chlorophenyl)-7,10-dihydro-N-(2-trifluoromethylphenyl)-4H-pyrido [4',3' ; 4,5] thieno [3,2-f] [1,2,4] triazolo [4,3-a] [1,4] diazepine -9(8H)-carbothioamide ;

or its substituents R, X, Y, R₁, R_{2a}, R_{2b} and R₃ are respectively the following :

- 2-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-isoPr-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-NC-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;

- 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Et ;
 - 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; H ;
 - 2-terBu-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 1-naphthyl ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-F₃CO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Et-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-PhO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Pr-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-EtOC(O)-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-MeS-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-MeO-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2,4-(MeO)-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Cl-5-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Me-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2,3-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2,5-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2,5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Me-5-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-F₃C-4-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-NO₂-4-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-MeO-4-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2,5-Br-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-Cl-5-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Pr ;
 - 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Bu ;
 - 2-F₃C-Ph ; NH ; S ; H ; H ; H ; Me ;
 - 2-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph ;
 - 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Pr ;
 - 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Bu ;
 - 2-MeSO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-F₃C-4-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
 - 2-NO₂-4-MeO-Ph ; NH ; S ; 4-Cl ; H ; H ; Bz ;
 - 2-F₃C-Ph ; NH ; S ; 4-Cl ; H ; H ; Me ;

- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; pentyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; hexyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 3-Cl ; H ; H ; Bz ;
- 2-NO₂-4-F-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-NC-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 1-naphthyl-methyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 3-indolyl-methyl ;
- 2-MeS-5-F₃C-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 3-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-5-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-5-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-EtO-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 4-MeO-Bz ;
- 2-NO₂-4-Cl-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-Br-4-Me-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 4-HO-Bz ;
- 2-F₃C-4-NO₂-Ph ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; H ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph-C₂H₄ ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; EtOC₂H₄ ;
- 3-NO₂-2-pyridinyl ; NH ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; - ; O ; 2-Cl ; H ; H ; Me ;
- Ph ; - ; S ; 2-Cl ; H ; H ; Me ;
- 2-F₃C-Ph ; CH₂ ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 4-Cl ; H ; H ; Me ;
- 2-NO₂-Ph ; CH₂ ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-MeO ; H ; H ; Bu ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-MeO ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Me ; H ; H ; Bu ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Me ; H ; H ; Bz ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; Ph-Ph ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; cyclohexylmethyl ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; (Me)₂NC₂H₄ ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; 3-HO-Bz ;
- Ph ; S ; S ; 2-Cl ; H ; H ; Me ;
- 2-NO₂-4-MeO-Ph ; NH ; S ; 2-Cl ; H ; H ; heptyl.

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